

Sony Video Communications

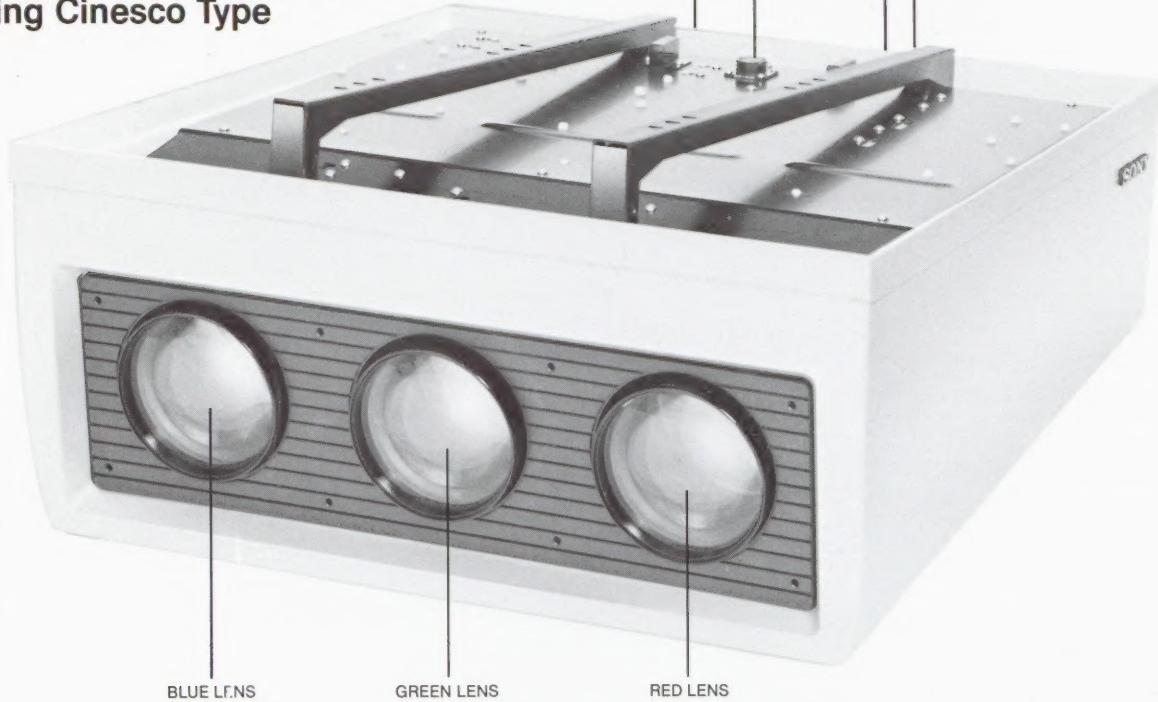
FPH-670W Color Video Projection System Ceiling Cinesco Type

The Sony FPH-670W projects clear, sharp video images in either the standard 3×4 TV ratio or an extrawide 2.35×1 ratio—without any special projection lenses—onto a high-gain video screen—or a conventional flat screen. Designed for heavy institutional or industrial use it is particularly well suited for use in video theaters and as a video window for teleconferencing. It's also an excellent cost and time saving aid for movie productions and a perfect system for aircraft and marine training simulators.

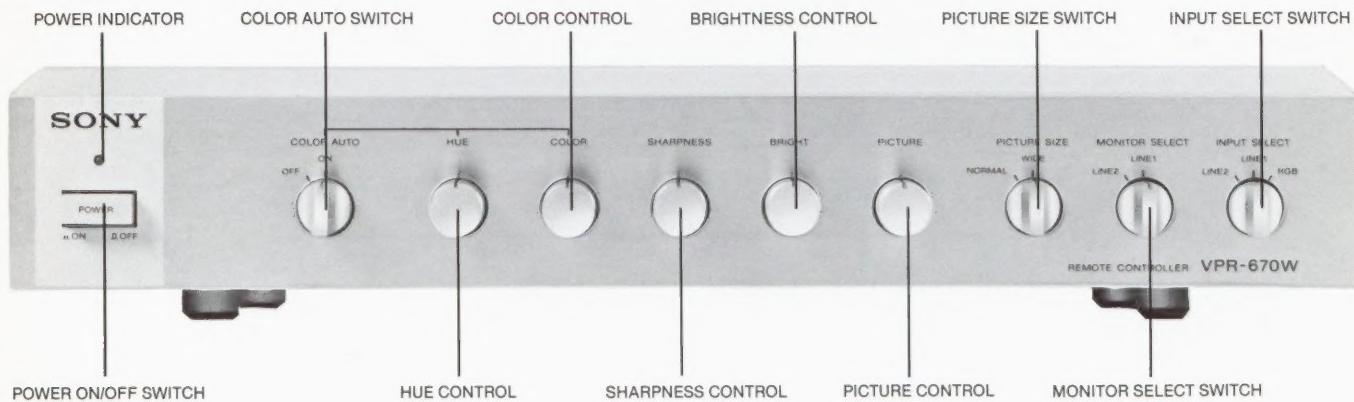


SONY FPH-670W
Color Video Projection System
Ceiling Cinesco Type

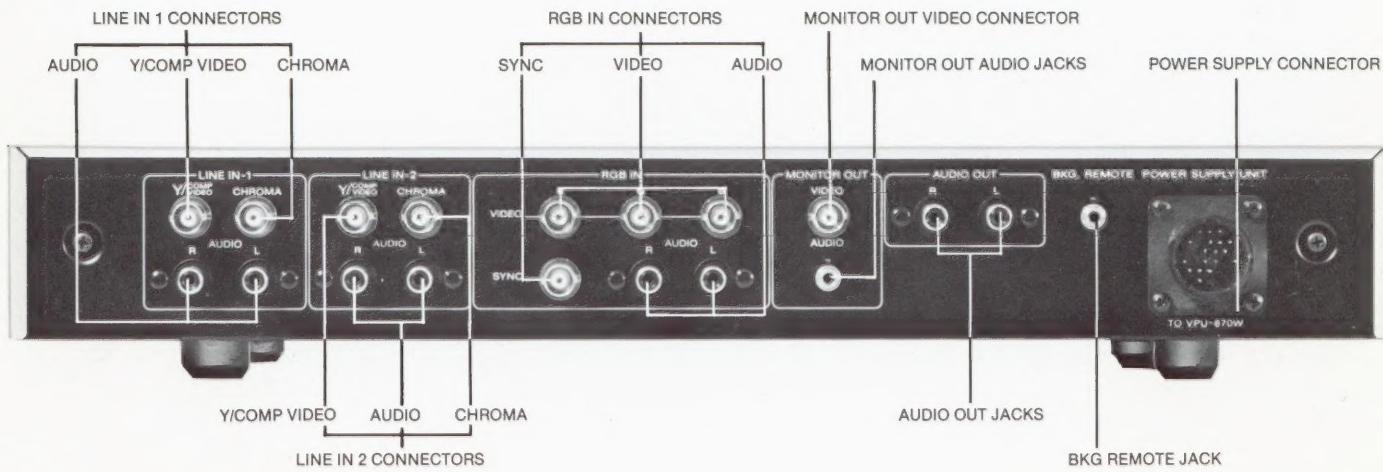
VPH-670W



VPR-670W

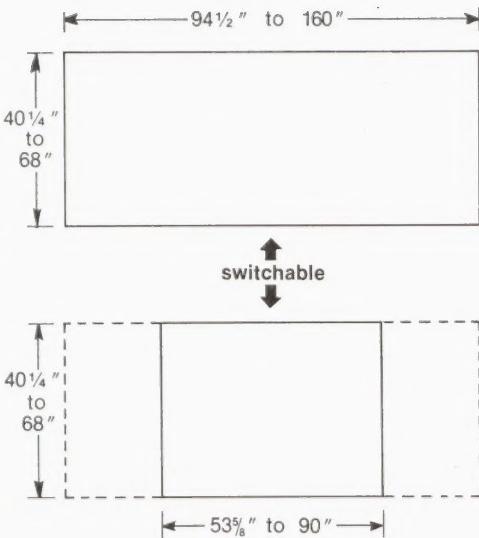


VPU-670W



Features

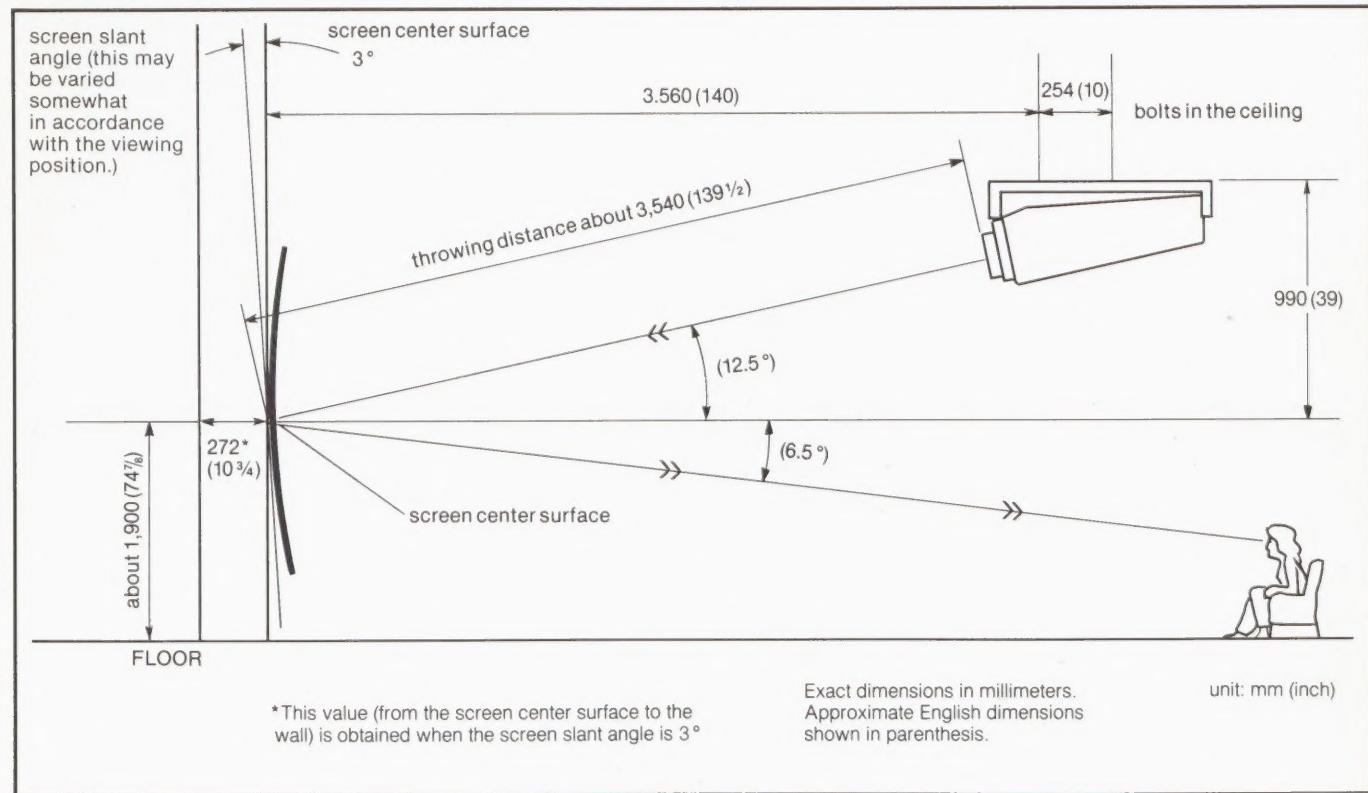
- Projects images in either the regular 3×4 TV ratio or extra-wide 2.35×1 ratio without the need for special projection lenses.
- Can project a bright, crisp picture on a high gain video screen ($94\frac{1}{2} \times 40\frac{1}{2}$ inch), plus a large (120-to-200 inch) diagonal picture on a conventional flat screen in regular 3×4 ratio.
- Switchable between wide screen (2.35×1 ratio) and regular (3×4 ratio) operation.
- Remote control operation for controlling power, color adjustment,



- input selection and aspect-ratio selection at distances up to 200 feet.
- Versatile input capability: accepts either two composite NTSC video signals or RGB signal with 1800-character display capacity.
- Projected picture and audio can be monitored at remote locations through MONITOR-OUT connector.
- Wide viewing angle: ± 45 degrees from screen center of a VPS-670W high gain screen.
- Ceiling-mount design saves space and allows unobstructed viewing.
- Built-in crosshatch test-pattern generator for easy set up.

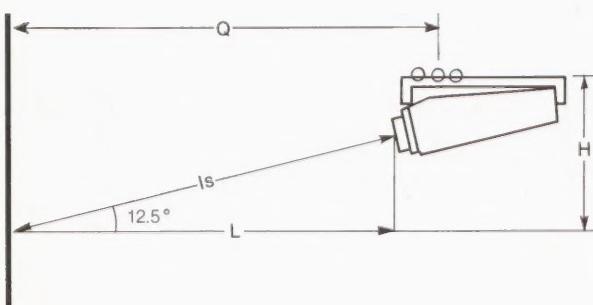
For VPS-670W High Gain Video Screen

This configuration indicates the relative position among the projector, screen and the viewing position.



For conventional Flat Screen (Aspect Ratio 3×4)

Relationship between the projector and the screen



Picture Size	ls	L	Q	H
120" (2.4m \times 1.8m)	3.540	3.460	3.560	990
140" (2.8m \times 2.1m)	4.110	4.000	4.100	1.110
150" (3.0m \times 2.3m)	4.400	4.290	4.390	1.170
160" (3.3m \times 2.4m)	4.670	4.560	4.660	1.230
170" (3.5m \times 2.6m)	4.960	4.850	4.950	1.300
180" (3.7m \times 2.7m)	5.260	5.130	5.230	1.360
200" (4m \times 3m)	5.830	5.690	5.790	1.480

unit: mm

L: from the screen center to the lens surface

I: throwing distance

H: from the screen center to the mounting stay assembly

Q: distance from screen to center hole of mounting bracket

SONY FPH-670W

Color Video Projection System Ceiling Cinesco Type

SPECIFICATIONS

OPTICAL

Projection Lens: High efficiency large-aperture lenses f1.6/170 mm
Picture Tube: 8 inch high brightness RGB monochrome tubes
Screen: Aluminized, high efficiency concave screen

Projected Picture Size:
 NORMAL: 40 $\frac{1}{4}$ " x 53 $\frac{5}{8}$ " (H x W)
 1,022mm x 1,360mm (H x W)
 WIDE: 40 $\frac{1}{4}$ " x 94 $\frac{1}{2}$ " (H x W)
 1,022mm x 2,400mm (H x W)

Picture Brightness (white peak): about 30 fL in WIDE mode
Throwing Distance: about 12 ft.
 (3.54 m) with optional screen VPS-670W

Viewing Distance: 17 to 83 ft.
 (5 to 25 m)

Optimum Seating Arrangement:
 Within approx. \pm 45 degrees from
 the center of the screen

ELECTRICAL

Signal: NTSC system

Contrast Ratio: 40:1

Automatic Controls:

ACC (automatic color control)
 ACK (automatic color killer)
 ABL (automatic brightness limiter)
 ANC (automatic noise canceller)
 AVR (automatic voltage regulator)
 HVR (high voltage regulator)
 AFT (automatic frequency control)

Anode Voltage: 27 kV

Registration: Crosshatch test pattern generator is incorporated.

RGB Inputs: Character display capacity: 1800 characters (5 x 7 dots, 60 letters x 30 lines)
 Horizontal frequency: 15.75 kHz
 Vertical frequency: 60 Hz
 Resolution: 420 TV lines (horizontal)
 350 TV lines (vertical)

Inputs/Outputs:

Signal	Connector	Signal level	Remarks
Video input	LINE IN 1 BNC connector	1 V (p-p) \pm 0.2 V	NTSC 75 Ohms sync negative composite video or Y/C selectable
	LINE IN 2 BNC connector		
	RGB IN BNC connector	composite RGB: 1V (p-p) \pm 0.2V or non-composite RGB: 0.7V (p-p) \pm 0.15V sync: 0.5V (p-p) – 6V (p-p), 75 Ohms, sync negative	Sync is selected automatically between com- posite RGB signal and exter- nal sync.
Video output	MONITOR OUT BNC connector	1V (p-p) \pm 0.2V	NTSC, 75 Ohms sync negative
Audio input	LINE IN 1 Phono jacks LINE IN 2 Phono jacks RGB IN Phono jacks	-5 dB	high impedance
Audio output	MONITOR OUT Mini jack AUDIO OUT Phono jacks	-5 dB	less than 5 k Ohms

GENERAL

Type: Ceiling projector

Projection System: 3 picture tube—3 projection lens direct projection system

Power Requirements: 120 V AC,
 60 Hz

Power Consumption: 210 W (max)
 190 W (average)

Weight and Dimensions:

Unit	Dimensions (HWD)	Weight
VPH-670W Color Video Projector	11 $\frac{1}{8}$ " x 26 $\frac{1}{4}$ " x 28 $\frac{5}{8}$ " 295mm x 664mm x 725mm	Projector: 71 lb (32.4 kg) Cabinet: 8 lb (3.6 kg) Mounting bracket Stay assembly: 6 lb (2.5 kg)
VPU-670W Projector Power Supply	4 $\frac{3}{8}$ " x 17" x 15 $\frac{3}{4}$ " 108 mm x 430mm x 400mm	29 lb (13 kg)
VPR-670W Remote Controller	2 $\frac{7}{8}$ " x 17" x 9 $\frac{3}{4}$ " 73mm x 430mm x 247mm	7 lb (3.1 kg)
VPS-670W Video Screen with Bracket assembly	44 $\frac{1}{4}$ " x 98 $\frac{1}{2}$ " x 10 $\frac{5}{8}$ " 1,120mm x 2,500mm x 270 mm	95 lb (43 kg)

System Components:

VPH-670W Projector with cabinet
 VPU-670W Power supply
 VPR-670W Remote controller

Optional Components:

VPS-670W High-gain video screen
 w/2.35 x 1 aspect ratio

Optional Accessories:

PCC-120 28 pin cable (12m) (40 ft.)
 PCC-240 28 pin cable (24m) (80 ft.)
 PCC-360 28 pin cable (36m) (120 ft.)
 PSS-10 Projector suspension support

Specifications subject to change without notice.

Supplied Accessories:

28 pin connecting cable 1.2m
 28 pin connecting cable 12m
 Adjustment tool w/holder
 Insertion/extraction tool
 Polishing cloth
 Projector mounting bracket/stay assembly